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May 27, 2021

**VIA ELECTRONIC FILING**

The Honorable Jocelyn G. Boyd  
Chief Clerk/Executive Director  
Public Service Commission of South Carolina  
101 Executive Center Drive, Suite 100  
Columbia, SC 29210

**Re: Duke Energy Progress, LLC- Monthly Fuel Report**  
**Docket Number: 2006-176-E**

Dear Ms. Boyd:

Pursuant to the Commission's Orders in Docket No. 1977-354-E, enclosed for filing is Duke Energy Progress, LLC's Monthly Fuel Report in Docket No. 2006-176-E for the month of April 2021.

Sincerely,

A handwritten signature in blue ink that reads "Katie M. Brown". The signature is written in a cursive, flowing style.

Katie M. Brown

Enclosure

cc: Ms. Dawn Hipp, Office of Regulatory Staff  
Ms. Nanette Edwards, Office of Regulatory Staff  
Mr. Jeff Nelson, Office of Regulatory Staff  
Mr. Michael Seaman-Huynh, Office of Regulatory Staff  
Mr. Ryder Thompson, Office of Regulatory Staff

## Schedule 1

DUKE ENERGY PROGRESS  
SUMMARY OF MONTHLY FUEL REPORT

Line No.	Item	APRIL 2021
1	Fuel and Fuel-related Costs excluding DERP incremental costs	\$ 101,914,015
	MWH sales:	
2	Total System Sales	4,665,825
3	Less intersystem sales	<u>305,277</u>
4	Total sales less intersystem sales	<u>4,360,548</u>
5	Total fuel and fuel-related costs (¢/KWH) (Line 1/Line 4)	<u>2.3372</u>
6	Current fuel & fuel-related cost component (¢/KWH) (per Schedule 4)	<u>2.2240</u>
	Generation Mix (MWH):	
	Fossil (By Primary Fuel Type):	
7	Coal	79,083
8	Oil	794
9	Natural Gas - Combustion Turbine	193,137
10	Natural Gas - Combined Cycle	1,065,737
11	Biogas	<u>1,504</u>
12	Total Fossil	<u>1,340,256</u>
13	Nuclear	2,264,492
14	Hydro - Conventional	84,730
15	Solar Distributed Generation	27,851
16	Total MWH generation	<u>3,717,329</u>

Note: Detail amounts may not add to totals shown due to rounding.

DUKE ENERGY PROGRESS  
DETAILS OF FUEL AND FUEL-RELATED COSTS

Description	APRIL 2021
<b>Fuel and Fuel-Related Costs:</b>	
<b>Steam Generation - Account 501</b>	
0501110 coal consumed - steam	\$ 3,886,020
0501310 fuel oil consumed - steam	117,391
Total Steam Generation - Account 501	4,003,411
<b>Nuclear Generation - Account 518</b>	
0518100 burnup of owned fuel	13,252,642
<b>Other Generation - Account 547</b>	
0547000 natural gas consumed - Combustion Turbine	5,300,697
0547000 natural gas capacity - Combustion Turbine	1,309,079
0547000 natural gas consumed - Combined Cycle	21,290,621
0547000 natural gas capacity - Combined Cycle	11,641,975
0547106 biogas consumed - Combined Cycle	68,362
0547200 fuel oil consumed	39,105
Total Other Generation - Account 547	39,649,839
<b>Purchased Power and Net Interchange - Account 555</b>	
Fuel and fuel-related component of purchased power	38,794,600
Fuel and fuel-related component of DERP purchases	105,621
PURPA purchased power capacity	6,068,568
DERP purchased power capacity	24,966
Total Purchased Power and Net Interchange - Account 555	44,993,755
<b>Less:</b>	
Fuel and fuel-related costs recovered through intersystem sales	179,637
Solar Integration Charge	35
Miscellaneous Fees Collected	10,000
Total Fuel Credits - Accounts 447/456	189,672
<b>Total Costs Included in Base Fuel Component</b>	<b>\$ 101,709,975</b>
<b>Environmental Costs</b>	
0509030, 0509212, 0557451 emission allowance expense	\$ 322
0502020, 0502030, 0502040, 0502080, 0502090, 0548020 reagents expense	228,330
Emission Allowance Gains	-
Less reagents expense recovered through intersystem sales - Account 447	16,052
Less emissions expense recovered through intersystem sales - Account 447	8,560
<b>Total Costs Included in Environmental Component</b>	<b>204,040</b>
<b>Fuel and Fuel-related Costs excluding DERP incremental costs</b>	<b>\$ 101,914,015</b>
<b>DERP Incremental Costs</b>	<b>302,043</b>
<b>Total Fuel and Fuel-related Costs</b>	<b>\$ 102,216,058</b>

## Notes:

Detail amounts may not add to totals shown due to rounding.  
DERP details are presented on Page 2.

DUKE ENERGY PROGRESS  
DETAILS OF FUEL AND FUEL-RELATED COSTS

Description	APRIL 2021
DERP Avoided Costs (Total Capacity and Energy)	
Purchased Power Agreements	\$ 12,757
Shared Solar Program	1,074
Total DERP Avoided Costs	\$ 13,831
DERP Incremental Costs	
Purchased Power Agreements	2,330
DERP NEM Incentive	178,075
Solar Rebate Program - Amortization	50,415
Solar Rebate Program - Carrying Costs	39,208
Shared Solar Program	2,906
NEM Avoided Capacity Costs	407
NEM Meter Costs	11,493
General and Administrative Expenses	17,178
Interest on under-collection due to cap	31
Total DERP Incremental Costs	\$ 302,043

Notes:

Detail amounts may not add to totals shown due to rounding.  
All amounts represent SC retail.

**DUKE ENERGY PROGRESS  
PURCHASED POWER AND INTERCHANGE  
SOUTH CAROLINA**

Schedule 3, Purchases  
Page 1 of 2

**APRIL 2021**

<b>Purchased Power</b>	<b>Total</b>	<b>Capacity</b>	<b>Non-capacity</b>		
<b>Marketers, Utilities, Other</b>	<b>\$</b>	<b>\$</b>	<b>mWh</b>	<b>Fuel \$</b>	<b>Non-fuel \$</b>
DE Carolinas - Reliability	\$ 460,209	-	8,971	\$ 460,209	-
Broad River Energy, LLC	703,212	\$ (184,480)	18,934	887,692	-
City of Fayetteville	366,503	354,250	52	12,253	-
DE Carolinas - Native Load Transfer	3,379,991	-	132,198	3,320,096	\$ 59,895
DE Carolinas - Native Load Transfer Benefit	813,986	-	-	813,986	-
Haywood EMC	28,000	28,000	-	-	-
NCEMC	2,076,505	1,799,123	6,406	277,382	-
PJM Interconnection, LLC	6,509	-	-	6,509	-
Southern Company Services	5,933,398	1,550,847	132,576	4,382,551	-
Energy Imbalance	39,852	-	1,786	37,667	2,185
Generation Imbalance	25,878	-	1,213	21,157	4,721
	<b>\$ 13,834,043</b>	<b>\$ 3,547,740</b>	<b>302,136</b>	<b>\$ 10,219,502</b>	<b>\$ 66,801</b>
<b>Act 236 PURPA Purchases</b>					
DERP Qualifying Facilities	\$ 133,498	-	3,233	\$ 133,498	-
Other Qualifying Facilities	20,710,550	-	393,220	20,710,550	-
Renewable Energy	13,933,116	-	221,714	13,933,116	-
	<b>\$ 34,777,164</b>	<b>-</b>	<b>618,167</b>	<b>\$ 34,777,164</b>	<b>-</b>
<b>Total Purchased Power</b>	<b>\$ 48,611,207</b>	<b>\$ 3,547,740</b>	<b>920,303</b>	<b>\$ 44,996,666</b>	<b>\$ 66,801</b>

NOTE: Detail amounts may not add to totals shown due to rounding.

**DUKE ENERGY PROGRESS  
INTERSYSTEM SALES\*  
SOUTH CAROLINA**

Schedule 3, Sales  
Page 2 of 2

**APRIL 2021**

<b>Sales</b>	<b>Total \$</b>	<b>Capacity \$</b>	<b>mWh</b>	<b>Non-capacity Fuel \$</b>	<b>Non-fuel \$</b>
<b>Market Based:</b>					
NCEMC Purchase Power Agreement	\$ 1,124,130	\$ 652,500	14,991	\$ 351,081	\$ 120,549
PJM Interconnection, LLC	329,097	-	12,988	234,094	95,003
<b>Other:</b>					
DE Carolinas - Native Load Transfer	(951,557)	-	277,282	(1,390,842)	439,285
DE Carolinas - Native Load Transfer Benefit	1,009,909	-	-	1,009,909	-
Generation Imbalance	2	-	16	7	(5)
<b>Total Intersystem Sales</b>	<b>\$ 1,511,581</b>	<b>\$ 652,500</b>	<b>305,277</b>	<b>\$ 204,249</b>	<b>\$ 654,832</b>

\* Sales for resale other than native load priority.

NOTE: Detail amounts may not add to totals shown due to rounding.

**Duke Energy Progress  
(Over) / Under Recovery of Fuel Costs  
APRIL 2021**

**Schedule 4  
Page 1 of 3**

			Total Residential	General Service Non-Demand	Demand	Lighting	Total
Line No.							
1	Actual System kWh sales	Input					4,360,547,537
2	DERP Net Metered kWh generation	Input					2,587,832
3	Adjusted System kWh sales	L1 + L2					4,363,135,369
4	Actual S.C. Retail kWh sales	Input	139,155,828	18,522,382	297,977,778	6,181,509	461,837,497
5	DERP Net Metered kWh generation	Input	1,529,916	31,438	1,026,478		2,587,832
6	Adjusted S.C. Retail kWh sales	L4 + L5	140,685,744	18,553,820	299,004,256	6,181,509	464,425,329
7	Actual S.C. Demand units (kw)	L32 / 31b *100			621,083		
<b>Base fuel component of recovery - non-capacity</b>							
8	Incurred System base fuel - non-capacity expense - Note 1	Input					\$76,313,648
9	Eliminate avoided fuel benefit of S.C. net metering	Input					\$58,547
10	Adjusted Incurred System base fuel - non-capacity expense	L8 + L9					\$76,372,195
11	Adjusted Incurred System base fuel - non-capacity rate (\$/kWh)	L10 / L3 * 100					1.750
12	S.C. Retail portion of adjusted incurred system expense	L6 * L11 / 100	\$2,462,559	\$324,766	\$5,233,762	\$108,201	\$8,129,288
13	Assign 100 % of Avoided Fuel Benefit of S.C. net metering	Input	(\$26,770)	(\$3,703)	(\$28,074)	\$0	(\$58,547)
14	S.C. Retail portion of incurred system expense	L12 + L13	\$2,435,789	\$321,063	\$5,205,688	\$108,201	\$8,070,741
15	Billed base fuel - non-capacity rate (\$/kWh) - Note 2	Input	1.887	1.887	1.887	1.887	1.887
16	Billed base fuel - non-capacity revenue	L4 * L15 /100	\$2,626,484	\$349,517	\$5,622,841	\$116,645	\$8,715,487
17	DERP NEM incentive - fuel component	Input	\$2,823	\$391	\$2,961	\$0	\$6,175
18	Adjusted S.C. billed base fuel - non-capacity revenue	L16 + L17	\$2,629,307	\$349,908	\$5,625,802	\$116,645	\$8,721,662
19	S.C. base fuel - non-capacity (over)/under recovery [See footnote]	L14 - L18	(\$193,518)	(\$28,845)	(\$420,114)	(\$8,444)	(\$650,921)
20	Adjustment	Input					
21	Total S.C. base fuel - non-capacity (over)/under recovery [See footnote]	L19 + L20	(\$193,518)	(\$28,845)	(\$420,114)	(\$8,444)	(\$650,921)
<b>Base fuel component of recovery - capacity</b>							
22a	Incurred base fuel - capacity rates by class (\$/kWh)	L23 / L4 * 100	0.662	0.688			
22b	Incurred base fuel - capacity rate (\$/kW)	L23 / L7 * 100			156		
23	Incurred S.C. base fuel - capacity expense	Input	\$921,077	\$127,406	\$965,938		\$2,014,421
24a	Billed base fuel - capacity rates by class (\$/kWh) - Note 3	Input	0.528	0.358			
24b	Billed base fuel - capacity rate (\$/kW)	Input			108		
25	Billed S.C. base fuel - capacity revenue	L24a * L4 /100	\$735,029	\$66,310	\$670,765	\$0	\$1,472,104
26	S.C. base fuel - capacity (over)/under recovery [See footnote]	L23 - L25	\$186,048	\$61,096	\$295,173	\$0	\$542,317
27	Adjustment	Input					
28	Total S.C. base fuel - capacity (over)/under recovery [See footnote]	L26 + L27	\$186,048	\$61,096	\$295,173	\$0	\$542,317
<b>Environmental component of recovery</b>							
29a	Incurred environmental rates by class (\$/kWh)	L30 / L4 * 100	0.007	0.007			
29b	Incurred environmental rate (\$/kW)	L30 / L7 * 100			2		
30	Incurred S.C. environmental expense	Input	\$9,881	\$1,367	\$10,362		\$21,610
31a	Billed environmental rates by class (\$/kWh) - Note 4	Input	0.021	0.012			
31b	Billed environmental rate (\$/kW)	Input			6		
32	Billed S.C. environmental revenue	L31a * L4 /100	\$29,014	\$2,223	\$37,265		\$68,502
33	S.C. environmental (over)/under recovery [See footnote]	L30 - L32	(\$19,133)	(\$856)	(\$26,903)	\$0	(\$46,892)
34	Adjustment	Input					
35	Total S.C. environmental (over)/under recovery [See footnote]	L33 + L34	(\$19,133)	(\$856)	(\$26,903)	\$0	(\$46,892)
<b>Distributed Energy Resource Program component of recovery: avoided costs</b>							
36a	Incurred S.C. DERP avoided cost rates by class (\$/kWh)	L37 / L4 * 100	0.005	0.005			
36b	Incurred S.C. DERP avoided cost rates by class (\$/kW)	L37 / L7 * 100			1		
37	Incurred S.C. DERP avoided cost expense	Input	\$6,324	\$875	\$6,632		\$13,831
38a	Billed S.C. DERP avoided cost rates by class (\$/kWh) - Note 5	Input	0.002	0.001			
38b	Billed S.C. DERP avoided cost rates by class (\$/kW)	Input			2		
39	Billed S.C. DERP avoided cost revenue	L38a * L4 /100	\$2,763	\$185	\$12,422		\$15,370
40	S.C. DERP avoided cost (over)/under recovery [See footnote]	L37 - L39	\$3,561	\$690	(\$5,790)	\$0	(\$1,539)
41	Adjustment	Input					
42	Total S.C. DERP avoided cost (over)/under recovery [See footnote]	L40 + L41	\$3,561	\$690	(\$5,790)	\$0	(\$1,539)
43	Total (over)/under recovery [See footnote]	L21 + L28 + L35 + L42	(\$23,042)	\$32,085	(\$157,634)	(\$8,444)	(\$157,035)

**Duke Energy Progress  
(Over) / Under Recovery of Fuel Costs  
APRIL 2021**

**Schedule 4  
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**Cumulative (over) / under recovery - BASE FUEL NON-CAPACITY**

Balance ending February 2020

	<b>Cumulative</b>	<b>Total Residential</b>	<b>Demand</b>	<b>Demand</b>	<b>Lighting</b>	<b>Total</b>
March 2020 - actual	\$8,184,894					
April 2020 - actual	6,703,728	(\$500,048)	(\$60,906)	(\$900,533)	(\$19,679)	(\$1,481,166)
May 2020 - actual	4,364,676	(697,174)	(89,196)	(1,518,585)	(34,097)	(2,339,052)
June 2020 - actual	4,577,719	65,636	6,313	137,505	3,589	213,043
July 2020 - actual	4,478,233	(30,783)	(6,228)	(61,363)	(1,112)	(99,486)
August 2020 - actual	6,715,676	792,265	102,353	1,317,188	25,637	2,237,443
September 2020 - actual	8,724,125	679,243	87,051	1,222,797	19,358	2,008,449
October 2020 - actual	8,099,982	(235,888)	(34,162)	(346,669)	(7,424)	(624,143)
November 2020 - actual	5,919,391	(611,844)	(94,900)	(1,444,195)	(29,652)	(2,180,591)
December 2020 - actual	5,901,814	(8,035)	(2,590)	(6,889)	(63)	(17,577)
January 2021 - actual	8,226,014	949,968	107,651	1,234,404	32,177	2,324,200
February 2021 - actual	9,400,229	494,440	49,682	617,120	12,973	1,174,215
March 2021 - actual	10,892,003	604,085	59,986	810,591	17,112	1,491,774
April 2021 - actual	10,684,199	(89,214)	(9,718)	(106,292)	(2,580)	(207,804)
May 2021 - forecast	10,033,278	(193,518)	(28,845)	(420,114)	(8,444)	(650,921)
June 2021 - forecast	10,056,847	7,101	1,089	15,018	361	23,569
	\$9,979,055	(26,296)	(3,404)	(46,970)	(1,122)	(\$77,792)

**Cumulative (over) / under recovery - BASE FUEL CAPACITY**

Balance ending February 2020

	<b>Cumulative</b>	<b>Total Residential</b>	<b>Demand</b>	<b>Demand</b>	<b>Lighting</b>	<b>Total</b>
March 2020 - actual	\$2,280,576					
April 2020 - actual	2,080,723	(\$542,342)	(\$57,884)	\$400,373	\$0	(\$199,853)
May 2020 - actual	2,576,867	198,269	22,469	275,406	0	496,144
June 2020 - actual	3,180,854	263,866	26,727	313,394	0	603,987
July 2020 - actual	3,332,298	(50,274)	(6,671)	208,389	0	151,444
August 2020 - actual	3,922,473	144,961	17,783	427,431	0	590,175
September 2020 - actual	4,544,592	227,860	33,406	360,853	0	622,119
October 2020 - actual	4,825,152	107,838	15,343	157,379	0	280,560
November 2020 - actual	5,414,755	393,328	35,047	161,228	0	589,603
December 2020 - actual	5,772,003	276,764	25,524	54,960	0	357,248
January 2021 - actual	5,704,739	(96,034)	10,781	17,989	0	(67,264)
February 2021 - actual	5,405,675	(449,779)	17,040	133,675	0	(299,064)
March 2021 - actual	5,044,753	(439,837)	17,043	61,872	0	(360,922)
April 2021 - actual	5,042,812	(143,103)	39,099	102,063	0	(1,941)
May 2021 - forecast	5,585,129	186,048	61,096	295,173	0	542,317
June 2021 - forecast	5,915,733	259,823	21,057	49,724	0	330,604
	\$5,928,467	(639)	9,799	3,574	0	\$12,734

**Cumulative (over) / under recovery - ENVIRONMENTAL**

Balance ending February 2020

	<b>Cumulative</b>	<b>Total Residential</b>	<b>Demand</b>	<b>Demand</b>	<b>Lighting</b>	<b>Total</b>
March 2020 - actual	(\$86,728)					
April 2020 - actual	(234,402)	(\$97,924)	(\$9,094)	(\$40,656)	\$0	(\$147,674)
May 2020 - actual	(399,194)	(93,739)	(9,066)	(61,987)	0	(164,792)
June 2020 - actual	(553,737)	(87,410)	(8,677)	(58,456)	0	(154,543)
July 2020 - actual	(605,586)	(41,045)	(4,402)	(6,402)	0	(51,849)
August 2020 - actual	(555,502)	13,176	1,515	35,393	0	50,084
September 2020 - actual	(382,799)	93,287	10,247	69,169	0	172,703
October 2020 - actual	(371,786)	10,098	1,743	(828)	0	11,013
November 2020 - actual	(414,291)	(13,748)	(1,090)	(27,667)	0	(42,505)
December 2020 - actual	(462,895)	(16,765)	(1,338)	(30,501)	0	(48,604)
January 2021 - actual	(436,892)	17,084	2,954	5,965	0	26,003
February 2021 - actual	(413,163)	3,051	4,066	16,612	0	23,729
March 2021 - actual	(348,874)	23,431	6,808	34,050	0	64,289
April 2021 - actual	(370,923)	(10,494)	1,297	(12,852)	0	(22,049)
May 2021 - forecast	(417,815)	(19,133)	(856)	(26,903)	0	(46,892)
June 2021 - forecast	(468,825)	(17,610)	(1,426)	(31,974)	0	(51,010)
	(\$458,681)	10,996	1,997	(2,849)	0	\$10,144

**Cumulative (over) / under recovery - DERP AVOIDED COSTS**

Balance ending February 2020

	<b>Cumulative</b>	<b>Total Residential</b>	<b>Demand</b>	<b>Demand</b>	<b>Lighting</b>	<b>Total</b>
March 2020 - actual	\$12,641					
April 2020 - actual	11,876	(\$2,864)	(\$414)	\$2,513	\$0	(\$765)
May 2020 - actual	12,921	(964)	(203)	2,212	0	1,045
June 2020 - actual	16,781	603	(55)	3,312	0	3,860
July 2020 - actual	32,685	6,591	490	8,823	0	15,904
August 2020 - actual	32,855	1,192	62	(1,084)	0	170
September 2020 - actual	30,362	3,988	534	(7,015)	0	(2,493)
October 2020 - actual	22,557	1,299	236	(9,340)	0	(7,805)
November 2020 - actual	16,369	2,282	278	(8,748)	0	(6,188)
December 2020 - actual	14,029	4,291	480	(7,111)	0	(2,340)
January 2021 - actual	2,953	(665)	87	(10,498)	0	(11,076)
February 2021 - actual	(7,867)	(1,761)	138	(9,197)	0	(10,820)
March 2021 - actual	(19,309)	(1,614)	150	(9,978)	0	(11,442)
April 2021 - actual	(30,648)	(799)	179	(10,719)	0	(11,339)
May 2021 - forecast	(32,187)	3,561	690	(5,790)	0	(1,539)
June 2021 - forecast	(32,071)	6,197	672	(6,753)	0	116
	(\$35,782)	3,747	490	(7,948)	0	(\$3,711)



**Duke Energy Progress  
(Over) / Under Recovery of Fuel Costs  
APRIL 2021**

Schedule 4  
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Line No.			Residential	Commercial	Industrial	Total
<b>Distributed Energy Resource Program component of recovery: incremental costs</b>						
44	Incurring S.C. DERP incremental expense	Input	\$138,107	\$99,672	\$64,264	\$302,043
45	Billed S.C. DERP incremental rates by account (\$/account)	Input	1.00	3.67	99.50	
46	Billed S.C. DERP incremental revenue	Input	\$140,388	\$119,752	\$26,802	\$286,942
47	S.C. DERP incremental (over)/under recovery [See footnote]	L44 - L46	(2,281)	(\$20,080)	\$37,462	\$15,101
48	Adjustment	Input				
49	Total S.C. DERP incremental (over)/under recovery [See footnote]	L47 + L48	<b>(\$2,281)</b>	<b>(\$20,080)</b>	<b>\$37,462</b>	<b>\$15,101</b>

Cumulative (over) / under recovery	Cumulative	Total
Balance ending February 2020	\$45,020	
March 2020 - actual	22,698	(\$22,322)
April 2020 - actual	19,428	(3,270)
May 2020 - actual	14,695	(4,733)
June 2020 - actual	25,056	10,361
July 2020 - actual	76,859	51,803
August 2020 - actual	98,892	22,033
September 2020 - actual	147,012	48,120
October 2020 - actual	165,750	18,738
November 2020 - actual	153,788	(11,962)
December 2020 - actual	137,210	(16,578)
January 2021 - actual	142,143	4,933
February 2021 - actual	173,594	31,451
March 2021 - actual	164,762	(8,832)
April 2021 - actual	179,863	15,101
May 2021 - forecast	216,361	36,498
June 2021 - forecast	\$250,826	\$34,464

**Notes:**

Detail amounts may not recalculate due to percentages presented as rounded.

Presentation of over or under collected amounts reflects a regulatory asset or liability. Over collections, or regulatory liabilities, are shown as negative amounts.

Under collections, or regulatory assets, are shown as positive amounts.

\_ /1 Excludes System adjustment reflected at SC Retail on March 2021 Schedule 4, Line 20.

\_ /2 Total residential billed fuel non-capacity rate is a composite rate reflecting the 7/1/20 approved residential rate of 1.901 and RECD 5% discount.

\_ /3 Total residential billed fuel capacity rate is a composite rate reflecting the 7/1/20 approved residential rate of .532 and RECD 5% discount.

\_ /4 Total residential billed environmental rate is a composite rate reflecting the 7/1/20 approved residential rate of .021 and RECD 5% discount.

\_ /5 Total residential billed DERP avoided capacity rate is a composite rate reflecting the 7/1/20 approved residential rate of .002 and RECD 5% discount.

**Duke Energy Progress**  
**Fuel and Fuel Related Cost Report**  
**APRIL 2021**

Schedule 5  
Page 1 of 2

Description	Mayo Steam	Roxboro Steam	Asheville CC/CT	Smith Energy Complex CC/CT	Sutton CC/CT	Lee CC	Blewett CT
<b>Cost of Fuel Purchased (\$)</b>							
Coal	\$6,337,380	\$16,379,528	-	-	-	-	-
Oil	223	227,725	\$2,894	-	-	-	-
Gas - CC	-	-	6,303,992	\$11,170,361	\$11,625,263	\$3,832,980	-
Gas - CT	-	-	236,547	3,805,501	176,378	-	-
Biogas	-	-	-	354,302	-	-	-
Total	\$6,337,603	\$16,607,253	\$6,543,433	\$15,330,164	\$11,801,641	\$3,832,980	-
<b>Average Cost of Fuel Purchased (¢/MBTU)</b>							
Coal	523.03	445.99	-	-	-	-	-
Oil	-	1,377.23	-	-	-	-	-
Gas - CC	-	-	470.27	334.55	432.43	726.94	-
Gas - CT	-	-	450.40	343.23	1,484.41	-	-
Biogas	-	-	-	2,799.26	-	-	-
Weighted Average	523.05	450.17	469.52	343.70	437.06	726.94	-
<b>Cost of Fuel Burned (\$)</b>							
Coal	-	\$3,886,020	-	-	-	-	-
Oil - CC	-	-	\$3,920	-	-	-	-
Oil - Steam/CT	-	117,391	-	\$951	-	-	\$8,822
Gas - CC	-	-	6,303,992	11,170,361	11,625,263	3,832,980	-
Gas - CT	-	-	236,547	3,805,501	176,378	-	-
Biogas	-	-	-	354,302	-	-	-
Nuclear	-	-	-	-	-	-	-
Total	-	\$4,003,411	\$6,544,459	\$15,331,115	\$11,801,641	\$3,832,980	\$8,822
<b>Average Cost of Fuel Burned (¢/MBTU)</b>							
Coal	-	331.42	-	-	-	-	-
Oil - CC	-	-	1,568.00	-	-	-	-
Oil - Steam/CT	-	1,265.67	-	1,668.42	-	-	1,683.59
Gas - CC	-	-	470.27	334.55	432.43	726.94	-
Gas - CT	-	-	450.40	343.23	1,484.41	-	-
Biogas	-	-	-	2,799.26	-	-	-
Nuclear	-	-	-	-	-	-	-
Weighted Average	-	338.75	469.72	343.72	437.06	726.94	1,683.59
<b>Average Cost of Generation (¢/kWh)</b>							
Coal	-	4.51	-	-	-	-	-
Oil - CC	-	-	15.53	-	-	-	-
Oil - Steam/CT	-	16.36	-	19.59	-	-	32.67
Gas - CC	-	-	3.23	2.57	3.09	6.40	-
Gas - CT	-	-	5.32	3.16	16.41	-	-
Biogas	-	-	-	23.55	-	-	-
Nuclear	-	-	-	-	-	-	-
Weighted Average	-	4.61	3.28	2.75	3.13	6.40	32.67
<b>Burned MBTU's</b>							
Coal	-	1,172,537	-	-	-	-	-
Oil - CC	-	-	250	-	-	-	-
Oil - Steam/CT	-	9,275	-	57	-	-	524
Gas - CC	-	-	1,340,510	3,338,933	2,688,331	527,279	-
Gas - CT	-	-	52,519	1,108,733	11,882	-	-
Biogas	-	-	-	12,657	-	-	-
Nuclear	-	-	-	-	-	-	-
Total	-	1,181,812	1,393,279	4,460,380	2,700,213	527,279	524
<b>Net Generation (mWh)</b>							
Coal	(7,129)	86,212	-	-	-	-	-
Oil - CC	-	-	25	-	-	-	-
Oil - Steam/CT	-	718	-	5	-	-	27
Gas - CC	-	-	195,328	434,573	375,904	59,933	-
Gas - CT	-	-	4,450	120,557	1,075	-	-
Biogas	-	-	-	1,504	-	-	-
Nuclear	-	-	-	-	-	-	-
Hydro (Total System)	-	-	-	-	-	-	-
Solar (Total System)	-	-	-	-	-	-	-
Total	(7,129)	86,930	199,803	556,639	376,979	59,933	27
<b>Cost of Reagents Consumed (\$)</b>							
Ammonia	-	-	-	\$26,517	-	-	-
Limestone	-	\$160,249	-	-	-	-	-
Re-emission Chemical	-	-	-	-	-	-	-
Sorbents	-	41,564	-	-	-	-	-
Urea	-	-	-	-	-	-	-
Total	-	\$201,813	-	\$26,517	-	-	-

**Notes:**

Detail amounts may not add to totals shown due to rounding.

Schedule excludes in-transit, terminal and tolling agreement activity.

Cents/MBTU and cents/kWh are not computed when costs and/or net generation is negative.

Lee and Wayne oil burn is associated with inventory consumption shown on Schedule 6 for Wayne.

**Duke Energy Progress  
Fuel and Fuel Related Cost Report  
APRIL 2021**

**Schedule 5  
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Description	Darlington CT	Wayne County CT	Weatherspoon CT	Brunswick Nuclear	Harris Nuclear	Robinson Nuclear	Current Month	Total 12 ME APRIL 2021
<b>Cost of Fuel Purchased (\$)</b>								
Coal	-	-	-	-	-	-	\$22,716,908	\$229,235,281
Oil	-	-	-	-	-	-	230,842	6,206,085
Gas - CC	-	-	-	-	-	-	32,932,596	541,286,903
Gas - CT	\$7	\$2,391,319	\$24	-	-	-	6,609,776	56,330,068
Biogas	-	-	-	-	-	-	354,302	4,563,251
Total	\$7	\$2,391,319	\$24	-	-	-	\$62,844,424	\$837,621,588
<b>Average Cost of Fuel Purchased (¢/MBTU)</b>								
Coal	-	-	-	-	-	-	465.11	348.66
Oil	-	-	-	-	-	-	1,396.08	1,303.82
Gas - CC	-	-	-	-	-	-	417.13	380.86
Gas - CT	-	317.90	-	-	-	-	343.30	331.00
Biogas	-	-	-	-	-	-	2,799.26	2,786.82
Weighted Average	-	317.90	-	-	-	-	426.53	371.41
<b>Cost of Fuel Burned (\$)</b>								
Coal	-	-	-	-	-	-	\$3,886,020	\$310,971,386
Oil - CC	-	-	-	-	-	-	3,920	230,985
Oil - Steam/CT	-	-	\$25,412	-	-	-	152,576	14,357,480
Gas - CC	-	-	-	-	-	-	32,932,596	541,286,903
Gas - CT	\$7	\$2,391,319	24	-	-	-	6,609,776	56,330,068
Biogas	-	-	-	-	-	-	354,302	4,563,251
Nuclear	-	-	-	\$7,234,454	\$3,081,135	\$2,937,053	13,252,642	171,086,421
Total	\$7	\$2,391,319	\$25,436	\$7,234,454	\$3,081,135	\$2,937,053	\$57,191,832	\$1,098,826,494
<b>Average Cost of Fuel Burned (¢/MBTU)</b>								
Coal	-	-	-	-	-	-	331.42	358.13
Oil - CC	-	-	-	-	-	-	1,568.00	1,523.65
Oil - Steam/CT	-	-	1,590.24	-	-	-	1,332.08	1,505.38
Gas - CC	-	-	-	-	-	-	417.13	380.86
Gas - CT	-	317.90	-	-	-	-	343.30	331.00
Biogas	-	-	-	-	-	-	2,799.26	2,786.82
Nuclear	-	-	-	55.53	56.40	57.90	56.24	56.42
Weighted Average	-	317.90	1,591.74	55.53	56.40	57.90	165.39	199.66
<b>Average Cost of Generation (¢/kWh)</b>								
Coal	-	-	-	-	-	-	4.91	4.11
Oil - CC	-	-	-	-	-	-	15.53	14.57
Oil - Steam/CT	-	-	133.75	-	-	-	19.85	25.42
Gas - CC	-	-	-	-	-	-	3.09	2.74
Gas - CT	-	3.56	-	-	-	-	3.42	3.56
Biogas	-	-	-	-	-	-	23.55	20.42
Nuclear	-	-	-	0.58	0.58	0.60	0.59	0.59
Weighted Average	-	3.56	133.87	0.58	0.58	0.60	1.54	1.85
<b>Burned MBTU's</b>								
Coal	-	-	-	-	-	-	1,172,537	86,831,605
Oil - CC	-	-	-	-	-	-	250	15,160
Oil - Steam/CT	-	-	1,598	-	-	-	11,454	953,745
Gas - CC	-	-	-	-	-	-	7,895,053	142,122,351
Gas - CT	-	752,231	-	-	-	-	1,925,365	17,017,914
Biogas	-	-	-	-	-	-	12,657	163,744
Nuclear	-	-	-	13,028,076	5,462,925	5,072,195	23,563,196	303,234,103
Total	-	752,231	1,598	13,028,076	5,462,925	5,072,195	34,580,512	550,338,622
<b>Net Generation (mWh)</b>								
Coal	-	-	-	-	-	-	79,083	7,566,149
Oil - CC	-	-	-	-	-	-	25	1,586
Oil - Steam/CT	-	-	19	-	-	-	768	56,477
Gas - CC	-	-	-	-	-	-	1,065,737	19,764,642
Gas - CT	(164)	67,219	-	-	-	-	193,137	1,580,663
Biogas	-	-	-	-	-	-	1,504	22,345
Nuclear	-	-	-	1,246,906	529,499	488,087	2,264,492	29,114,553
Hydro (Total System)	-	-	-	-	-	-	84,730	933,361
Solar (Total System)	-	-	-	-	-	-	27,851	246,813
Total	(164)	67,219	19	1,246,906	529,499	488,087	3,717,329	59,286,589
<b>Cost of Reagents Consumed (\$)</b>								
Ammonia	-	-	-	-	-	-	\$26,517	\$1,827,907
Limestone	-	-	-	-	-	-	160,249	7,895,629
Re-emission Chemical	-	-	-	-	-	-	-	-
Sorbents	-	-	-	-	-	-	41,564	3,246,451
Urea	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	\$228,330	\$12,969,987

**Duke Energy Progress**  
**Fuel & Fuel-related Consumption and Inventory Report**  
**APRIL 2021**

Schedule 6  
Page 1 of 2

Description	Mayo	Roxboro	Asheville	Smith Energy Complex	Sutton	Lee	Blewett
<b>Coal Data:</b>							
Beginning balance	302,971	792,936	-	-	-	-	-
Tons received during period	48,482	147,600	-	-	-	-	-
Inventory adjustments	-	-	-	-	-	-	-
Tons burned during period	-	46,670	-	-	-	-	-
Ending balance	351,453	893,866	-	-	-	-	-
MBTUs per ton burned	-	25.12	-	-	-	-	-
Cost of ending inventory (\$/ton)	91.39	83.19	-	-	-	-	-
<b>Oil Data:</b>							
Beginning balance	301,715	342,493	4,478,171	6,659,501	2,450,460	-	723,104
Gallons received during period	-	119,817	-	-	-	-	-
Miscellaneous use and adjustments	(1,975)	(7,499)	-	-	-	-	-
Gallons burned during period	-	67,451	1,821	409	-	-	3,729
Ending balance	299,740	387,360	4,476,350	6,659,092	2,450,460	-	719,375
Cost of ending inventory (\$/gal)	1.73	1.74	2.15	2.33	2.80	-	2.37
<b>Natural Gas Data:</b>							
Beginning balance	-	-	-	-	-	-	-
MCF received during period	-	-	1,349,529	4,286,053	2,614,667	510,067	-
MCF burned during period	-	-	1,349,529	4,286,053	2,614,667	510,067	-
Ending balance	-	-	-	-	-	-	-
<b>Biogas Data:</b>							
Beginning balance	-	-	-	-	-	-	-
MCF received during period	-	-	-	12,255	-	-	-
MCF burned during period	-	-	-	12,255	-	-	-
Ending balance	-	-	-	-	-	-	-
<b>Limestone/Lime Data:</b>							
Beginning balance	20,738	72,231	-	-	-	-	-
Tons received during period	-	7,686	-	-	-	-	-
Inventory adjustments	-	-	-	-	-	-	-
Tons consumed during period	-	2,603	-	-	-	-	-
Ending balance	20,738	77,314	-	-	-	-	-
Cost of ending inventory (\$/ton)	49.19	58.96	-	-	-	-	-

Notes:

Detail amounts may not add to totals shown due to rounding.

Schedule excludes in-transit, terminal and tolling agreement activity.

Gas is burned as received; therefore, inventory balances are not maintained.

The oil inventory data for Wayne reflects the common usage of the oil tank used for both Wayne and Lee units.



## Schedule 7

**DUKE ENERGY PROGRESS**  
**ANALYSIS OF COAL PURCHASED**  
**APRIL 2021**

STATION	TYPE	QUANTITY OF TONS DELIVERED	DELIVERED COST	DELIVERED COST PER TON
MAYO	SPOT	36,359	\$ 1,835,020	\$ 50.47
	CONTRACT	12,123	895,945	73.90
	FIXED TRANSPORTATION/ADJUSTMENTS	-	3,606,415	-
	TOTAL	48,482	\$ 6,337,380	\$ 131
ROXBORO	SPOT	-	\$ 17,178	-
	CONTRACT	147,600	9,282,062	\$ 62.89
	FIXED TRANSPORTATION/ADJUSTMENTS	-	7,080,288	-
	TOTAL	147,600	\$ 16,379,528	\$ 110.97
ALL PLANTS	SPOT	36,359	\$ 1,852,198	\$ 50.94
	CONTRACT	159,723	10,178,007	63.72
	FIXED TRANSPORTATION/ADJUSTMENTS	-	10,686,703	-
	TOTAL	196,082	\$ 22,716,908	\$ 115.85

## Schedule 8

**DUKE ENERGY PROGRESS**  
**ANALYSIS OF COAL QUALITY RECEIVED**  
**APRIL 2021**

<b>STATION</b>	<b>PERCENT MOISTURE</b>	<b>PERCENT ASH</b>	<b>HEAT VALUE</b>	<b>PERCENT SULFUR</b>
<b>MAYO</b>	8.08	9.00	12,496	2.72
<b>ROXBORO</b>	6.72	10.43	12,441	1.25

DUKE ENERGY PROGRESS  
ANALYSIS OF OIL PURCHASED  
APRIL 2021

	ROXBORO	
VENDOR	Greensboro Tank Farm	
SPOT/CONTRACT	Contract	
SULFUR CONTENT %	0	
GALLONS RECEIVED	119,817	
TOTAL DELIVERED COST	\$	227,725
DELIVERED COST/GALLON	\$	1.90
BTU/GALLON	138,000	

Note: Price adjustments for Asheville and motor fuel taxes for both Asheville and Mayo are excluded.



**Duke Energy Progress**  
**Power Plant Performance Data**  
**Twelve Month Summary**  
May, 2020 - April, 2021  
Nuclear Units

<u>Unit Name</u>	<u>Net Generation (mWh)</u>	<u>Capacity Rating (mW)</u>	<u>Capacity Factor (%)</u>	<u>Equivalent Availability (%)</u>
Brunswick 1	7,661,106	938	93.24	91.20
Brunswick 2	7,306,760	932	89.50	89.56
Harris 1	8,123,998	964	96.20	94.46
Robinson 2	6,022,689	759	90.58	89.60

**Duke Energy Progress  
Power Plant Performance Data  
Twelve Month Summary  
May, 2020 through April, 2021  
Combined Cycle Units**

Unit Name		Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Lee Energy Complex	1A	894,706	225	45.39	60.02
Lee Energy Complex	1B	794,981	227	39.98	53.74
Lee Energy Complex	1C	985,263	228	49.33	64.68
Lee Energy Complex	ST1	1,829,508	379	55.10	74.31
Lee Energy Complex	Block Total	4,504,458	1,059	48.56	64.79
Smith Energy Complex	7	1,016,080	194	59.89	77.24
Smith Energy Complex	8	995,253	194	58.66	76.50
Smith Energy Complex	ST4	1,166,245	183	72.89	83.94
Smith Energy Complex	9	1,341,835	216	71.02	83.31
Smith Energy Complex	10	1,356,925	216	71.82	84.38
Smith Energy Complex	ST5	1,753,906	249	80.31	93.31
Smith Energy Complex	Block Total	7,630,244	1,251	69.65	83.58
Sutton Energy Complex	1A	1,310,131	224	66.77	82.28
Sutton Energy Complex	1B	1,319,742	224	67.26	82.60
Sutton Energy Complex	ST1	1,626,685	271	68.52	93.28
Sutton Energy Complex	Block Total	4,256,558	719	67.58	86.52
Asheville CC	ACC CT5	1,066,893	191	63.93	78.61
Asheville CC	ACC CT7	1,200,338	191	71.93	77.39
Asheville CC	ACC ST6	528,684	90	67.06	67.50
Asheville CC	ACC ST8	601,400	90	76.28	80.40
Asheville CC	Block Total	3,397,315	561	69.13	76.73

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress  
Power Plant Performance Data  
Twelve Month Summary  
May, 2020 through April, 2021**

**Intermediate Steam Units**

<b>Unit Name</b>	<b>Net Generation (mWh)</b>	<b>Capacity Rating (mW)</b>	<b>Capacity Factor (%)</b>	<b>Equivalent Availability (%)</b>
Mayo 1	1,089,994	735	16.93	37.54
Roxboro 2	2,160,301	673	36.64	69.71
Roxboro 3	2,176,232	698	35.59	74.74
Roxboro 4	1,310,640	711	21.04	56.49

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress  
Power Plant Performance Data  
Twelve Month Summary  
May, 2020 through April, 2021  
Other Cycling Steam Units**

<b>Unit Name</b>	<b>Net Generation (mWh)</b>	<b>Capacity Rating (mW)</b>	<b>Capacity Factor (%)</b>	<b>Operating Availability (%)</b>
Roxboro 1	841,046	380	25.27	83.16

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress  
Power Plant Performance Data  
Twelve Month Summary  
May, 2020 through April, 2021  
Combustion Turbine Stations**

<b>Station Name</b>	<b>Net Generation (mWh)</b>	<b>Capacity Rating (mW)</b>	<b>Operating Availability (%)</b>
Asheville CT	116,553	353	93.10
Blewett CT	-91	68	78.52
Darlington CT	1,978	265	87.71
Smith Energy Complex CT	1,148,761	943	86.76
Sutton Fast Start CT	38,469	98	93.71
Wayne County CT	319,286	961	94.62
Weatherspoon CT	120	164	98.91

**Notes:**

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress  
Power Plant Performance Data**

SCHEDULE 10  
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**Twelve Month Summary  
May, 2020 through April, 2021  
Hydroelectric Stations**

<b>Station Name</b>	<b>Net Generation (mWh)</b>	<b>Capacity Rating (mW)</b>	<b>Operating Availability (%)</b>
Blewett	79,014	27.0	43.25
Marshall	-228	4.0	41.96
Tillery	329,274	84.3	89.66
Walters	525,301	113.0	63.80

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.